

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicant(s): Orton et al.

Group Art Unit: 2124

Serial No.: TBA

Examiner: J. Chavis

Filed: August 27, 2003

For: OBJECT-ORIENTED OPERATING SYSTEMS

**INFORMATION DISCLOSURE STATEMENT**

Mail Stop Patent Application  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Pursuant to Rule 56, applicant hereby calls the attention of the Patent Office to the references listed on the attached Form PTO 1449. Copy(ies) of these references ☒ are attached ☒ were filed in related application U.S. Serial No(s) 08/521,085, filed August 29, 1995, respectively.

- ☐ This document is being filed within three (3) months of the filing date of the application  
☐ A check for the requisite fee of \$180 is enclosed.  
☒ This document is being concurrently filed with the above-identified application  
☐ This document is being concurrently filed with an Request for Continued Examination (RCE)  
☐ This document is being filed prior to a first Office Action  
☐ This document is accompanied by a Search Report/Communication cited in a corresponding PCT or foreign counterpart application.  
☒ The Commissioner is hereby authorized to charge any additional fees which may be required for this Information Disclosure Statement, or credit any overpayment to Deposit Account No. 13-4500, Order No. 4386-7004US1. A DUPLICATE COPY OF THIS SHEET IS ATTACHED.

Respectfully submitted,  
MORGAN & FINNEGAN, L.L.P.

Dated: August 26, 2003

By: 

John E. Hoel  
Registration No. 26,279  
(202) 857-7887 Telephone  
(202) 857-7929 Facsimile

Correspondence Address:

MORGAN & FINNEGAN, L.L.P.  
345 Park Avenue  
New York, NY 10154-0053

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicant(s): Orton et al.

Group Art Unit: 2124

Serial No.: TBA

Examiner: J. Chavis

Filed: August 27, 2003

For: OBJECT-ORIENTED OPERATING SYSTEMS

**INFORMATION DISCLOSURE STATEMENT**

Mail Stop Patent Application  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Pursuant to Rule 56, applicant hereby calls the attention of the Patent Office to the references listed on the attached Form PTO 1449. Copy(ies) of these references ☒ are attached ☒ were filed in related application U.S. Serial No(s) 08/521,085, filed August 29, 1995, respectively.

- ☐ This document is being filed within three (3) months of the filing date of the application
- ☐ A check for the requisite fee of \$180 is enclosed.
- ☒ This document is being concurrently filed with the above-identified application
- ☐ This document is being concurrently filed with an Request for Continued Examination (RCE)
- ☐ This document is being filed prior to a first Office Action
- ☐ This document is accompanied by a Search Report/Communication cited in a corresponding PCT or foreign counterpart application.
- ☒ The Commissioner is hereby authorized to charge any additional fees which may be required for this Information Disclosure Statement, or credit any overpayment to Deposit Account No. 13-4500, Order No. 4386-7004US1. A DUPLICATE COPY OF THIS SHEET IS ATTACHED.

Respectfully submitted,  
MORGAN, & FINNEGAN, L.L.P.

Dated: August 26, 2003

By: 

John E. Hoel  
Registration No. 26,279  
(202) 857-7887 Telephone  
(202) 857-7929 Facsimile

**Correspondence Address:**

MORGAN & FINNEGAN, L.L.P.  
345 Park Avenue  
New York, NY 10154-0053

<b>Form PTO-1449</b> <b>INFORMATION DISCLOSURE CITATION</b> <b>IN AN APPLICATION</b> <i>(Use Several Sheets If Necessary)</i>				Docket No. <b>P-046.61A</b>		Application No. <b>Unknown</b>		
				Applicant: <b>Orton et al.</b>				
				Filing Date: <b>Herewith</b>		Group Art Unit <b>2764</b>		
<b>U.S. PATENT DOCUMENTS</b>								
Examiner Initial	No.	Document Number	Issue Date	Name	Class	Subclass	Filing Date If Appropriate	
	AA*	5,181,162	01/19/93	Smith et al.	364	419		
	AB*	5,151,987	09/29/92	Abraham et al.	395	575		
	AC*	5,136,705	08/04/92	Stubbs et al.	395	575		
	AD*	5,133,075	07/21/92	Risch	395	700		
	AE*	5,125,091	06/23/92	Staas, Jr. et al.	395	650		
	AF*	5,093,914	03/03/92	Coplien et al.	395	700		
	AG*	5,075,848	12/24/92	Lai et al.	395	445		
	AH*	5,060,276	10/22/92	Morris et al.	382	8		
	AI*	5,050,090	09/17/91	Golub et al.	364	478		
	AJ*	5,041,992	08/20/91	Cunningham et al.	364	518		
	AK*	4,953,080	08/28/91	Dysart et al.	364	200		
<b>FOREIGN PATENT DOCUMENTS</b>								
Examiner Initial	No.	Document Number	Issue Date	Country	Class	Subclass	Translation	
							Yes	No
	AL							
	AM							
<b>OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)</b>								
	AN*	Julin, D.P. et al., "Generalized Emulation Services for Mach 3.0--Overview, Experiences and Current Status," <i>USENIX Association--Mach Symposium Proceedings</i> , Nov. 1991, pp. 13-26						
	AO*	Malan, G. et al., "DDS as a Mach 3.0 Application," <i>USENIX Assoc.--Mach Symposium Proceedings</i> , Nov. 1991, pp. 27-40						
	AP*	Rashid, R., "A Catalyst for Open Systems," <i>Datamation</i> , May 15, 1988, p. 32-33						
	AD*	Guedes, Paulo, "O-O Interfaces in the Mach 3.0 Multi-Server System," <i>IEEE</i> 1991						
	AR*	Rashid, R. "Mach: A Foundation for Open Systems," <i>Carnegie Mellon University, IEEE</i> 1989						
	AS*	Foley, M.J., "Taligent, IBM draw closer," <i>PC Week</i> , Feb. 21, 1994, vol. 11, No. 7, p.8						
	AT*	Franz, M., "Emulating an Operating System on Top of Another," 1993 by John Wiley & Sons. Ltd.						
<b>EXAMINER:</b>				<b>DATE CONSIDERED:</b>				
<b>EXAMINER:</b> Initial if citation is considered, whether or not citation is in conformance with MPEP §609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the Applicant.								

<b>Form PTO-1449</b> <b>INFORMATION DISCLOSURE CITATION</b> <b>IN AN APPLICATION</b> <i>(Use Several Sheets If Necessary)</i>				Docket No. <b>P-046,61A</b>		Application No. <b>Unknown</b>		
				Applicant: <b>Orton et al.</b>				
				Filing Date: <b>Herewith</b>		Group Art Unit <b>2764</b>		
<b>U.S. PATENT DOCUMENTS</b>								
Examiner Initial	No.	Document Number	Issue Date	Name	Class	Subclass	Filing Date If Appropriate	
	BA*	4,891,630	01/02/90	Friedman et al.	340	706		
	BB*	4,885,717	12/05/89	Beck et al.	364	900		
	BC*	4,821,220	04/11/89	Duisberg	364	578		
	BD*	5,119,475	06/02/92	Smith et al.	395	156		
	BE*	4,456,954	06/84	Bullions, III et al.	364	200		
	BF*	4,530,052	07/85	King et al.	364	200		
	BG*	5,274,821	12/93	Rouque	395	700		
	BH*	5,280,610	01/94	Travis, et al.	395	600		
	BI*	5,287,507	02/94	Hamilton et al.	395	600		
	BJ*	5,293,385	03/94	Hary	371	19		
	BK*	5,339,422	08/94	Brender et al.	395	700		
<b>FOREIGN PATENT DOCUMENTS</b>								
Examiner Initial	No.	Document Number	Issue Date	Country	Class	Subclass	Translation	
							Yes	No
	BL							
	BM							
<b>OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)</b>								
	BN*	IBM C/C++ TOOLS: 'User Interface Class Library Reference' May 1993, IBM Part No.: 61G1179, DENMARK. See p. 464, lines 1-11						
	BQ*	Petzold, Charles, "Intro to OS/2 Function Calls," <i>PC Magazine</i> , vol. 6, no. 18, 27 Oct. 1987, NY, US, pp. 375-380						
	BP*	Breisacher, Lee, "Smalltalk/V Presentation Mgr.," <i>OS/2 NOTEBOOK: The Best of IBM Personal Systems Developer</i> , (Dick Conklin, General Editor), 1990, Microsoft Press, Redmond, US, pp. 226-232						
	BQ*	IBM C/C++ TOOLS, "Programming Guide," March 1993, IBM Part No.: 61G1181, DENMARK. See p. 35, line 1; see page 438, lines 1-6						
	BR	Bernabeau-Auban et al., "Clouds—A Distributed Object-Based Operating System Architecture and Kernel Implementation," <i>New Directions for Unix. Proc. Autumn 1988 EUUG Conf.</i> Oct. 3, 1988, Cascais, Portugal, pp. 25-37						
<b>EXAMINER:</b>				<b>DATE CONSIDERED:</b>				
EXAMINER: Initial if citation is considered, whether or not citation is in conformance with MPEP §609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the Applicant.								

<b>Form PTO-1449</b> <b>INFORMATION DISCLOSURE CITATION</b> <b>IN AN APPLICATION</b> <i>(Use Several Sheets If Necessary)</i>				Docket No. <b>P-046.61A</b>		Application No. <b>Unknown</b>		
				Applicant: <b>Orton et al.</b>				
				Filing Date: <b>Herewith</b>		Group Art Unit <b>2764</b>		
<b>U.S. PATENT DOCUMENTS</b>								
Examiner Initial	No.	Document Number	Issue Date	Name	Class	Subclass	Filing Date If Appropriate	
	CA*	5,341,478	08/94	Travis, Jr. et al.	395	200		
	CB*	5,321,841	06/14/94	East et al.	395	725		
	CC*	5,325,522	06/28/94	Vaughn	395	600		
	CD*	5,325,481	06/28/94	Hunt	395	159		
	CE*	5,317,741	05/31/94	Schwanke	395	700		
	CF*	5,325,524	06/28/94	Black	395	600		
	CG*	5,315,703	05/24/94	Matheny et al.	395	164		
	CH*	5,313,636	05/17/94	Noble et al.	395	700		
	CI*	5,315,709	05/24/94	Alston, Jr. et al.	395	650		
	CJ*	4,722,048	01/88	Hirsch et al.	395	650		
	CK*	5,136,711	08/92	Huggard et al.	395	700		
<b>FOREIGN PATENT DOCUMENTS</b>								
Examiner Initial	No.	Document Number	Issue Date	Country	Class	Subclass	Translation	
							Yes	No
	CL	WO/A04988	03/94	WIPO	G06F 15	62		
	CM							
<b>OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)</b>								
	CN	Daponte et al., "Object-Oriented Design of Measurement Systems," <i>Conference Record of IEEE Instrumentation and Measurement Technology Conference</i> , May 12, 1992, New York, pp. 243-248						
	CO	Dohlberg, S., "Galaxy from Visix", <i>Open Information Systems</i> , vol. 7, No.10, Oct. 1992, pp. 1-16						
	CP	Hruschka, "Towards an Object Oriented Method for System Architecture Design," <i>Proceeding of the 1990 IEEE International Conference on Computer Systems and Software Engineering</i> , COMPEURO '90, May 8, 1990, Tel Aviv, pp 12-17						
	CQ	McCormack et al., "Using the Toolkit or How to Write a Widget," <i>Proc. Of the Summer 1988 USENIX Conf.</i> , 20 Jun. 1988, San Francisco, pp. 1-13						
	CR	Musser, John, "Extending streambufs: class logstrub" <i>C++ Report</i> , 4(3), Mar 1992, pp. 51-55						
<b>EXAMINER:</b>					<b>DATE CONSIDERED:</b>			
EXAMINER: Initial if citation is considered, whether or not citation is in conformance with MPEP §609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the Applicant.								

<b>Form PTO-1449</b> <b>INFORMATION DISCLOSURE CITATION</b> <b>IN AN APPLICATION</b> <i>(Use Several Sheets If Necessary)</i>				Docket No. <b>P-046,61A</b>		Application No. <b>Unknown</b>	
				Applicant: <b>Orton et al.</b>			
				Filing Date: <b>Herewith</b>		Group Art Unit <b>2764</b>	
<b>U.S. PATENT DOCUMENTS</b>							
Examiner Initial	No.	Document Number	Issue Date	Name	Class	Subclass	Filing Date If Appropriate
	DA*	5,179,703	01/93	Evans	395	700	
	DB*	5,339,438	08/16/94	Conner et al.	395	700	
	DC*	5,325,533	06/28/94	McInerney et al.	395	700	
	DD*	5,339,430	08/94	Lundin et al.	395	700	
	DE*	5,361,350	11/94	Conner et al.	395	602	
	DF*	5,361,358	11/94	Cox et al.	395	700	
	DC*	5,404,529	01/95	Chernikoff et al.	395	700	
	DH*	5,379,432	01/95	Orton et al.	395	700	
	DI*	5,297,284	03/22/94	Jones et al.	395	700	
	DJ*	5,475,845	12/12/95	Orton et al.	395	682	
	DK*	5,327,562	07/05/94	Adcock	395	700	
<b>FOREIGN PATENT DOCUMENTS</b>							
Examiner Initial	No.	Document Number	Issue Date	Country	Class	Subclass	Translation
							Yes    No
	DL						
	DM						
<b>OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)</b>							
	DN	Schmidt, Doug, "Systems Programming with C++ Wrappers: Encapsulating IPC Services," <i>C++ Report</i> , 4(8), Oct. 1992, pp. 50-54					
	DO	Schmidt, Doug, "An Object-Oriented Interface to IPC Services," <i>C++ Report</i> , 4(9), Nov. 1992, pp. 48-54					
	DP	Schmidt, Doug, "Encapsulating Operating Systems IPCs: An Object-Oriented Interface for Event-Driven UNIX I/O Multiplexing," <i>C++ Report</i> , 5(2), Feb. 1993, pp. 43-50					
	DQ	Adler, R.M., "A Hierarchical Distributed Control Model for Coordinating Intelligent Systems," <i>Telmatics and Informatics</i> , vol. 8(4), 1991, U.S., pp. 385-402					
	DR	Guerraoui et al., "Distributed Programming in GARF," <i>Object-Based Distributed Programming ECOOP '93 Workshop</i> , Jul. 26, 1993, Kaiserslautern, DE pp. 225-239					
<b>EXAMINER:</b>				<b>DATE CONSIDERED:</b>			
EXAMINER: Initial if citation is considered, whether or not citation is in conformance with MPEP §609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the Applicant.							

<b>Form PTO-1449</b> <b>INFORMATION DISCLOSURE CITATION</b> <b>IN AN APPLICATION</b> <i>(Use Several Sheets if Necessary)</i>				Docket No. <b>P-046.61A</b>		Application No. <b>Unknown</b>		
				Applicant: <b>Orton et al.</b>				
				Filing Date: <b>Herewith</b>		Group Art Unit <b>2764</b>		
<b>U.S. PATENT DOCUMENTS</b>								
Examiner Initial	No.	Document Number	Issue Date	Name	Class	Subclass	Filing Date If Appropriate	
	EA	4,926,322	05/90	Stimac et al.	364	200		
	EB	4,974,159	11/90	Hargrove et al.	364	200		
	EC	5,237,669	08/93	Spear et al.	395	400		
	ED	5,280,583	11/90	Nakayama et al.	395	200		
	EE	5,471,568	11/28/95	Webb et al.	395	133	006/30/93	
	EF	5,455,951	10/03/95	Bolton et al.	395	700	07/19/93	
	EC	4,493,080	08/85	Dysart et al.	364	200		
	EH	4,704,694	11/87	Czerniejewski	382	25 X		
	EI	5,063,375	11/90	Lien et al.	394	140		
	EJ	5,155,558	10/92	Tannenbaum et al.	382	8 X		
	EK	5,473,777	12/05/95	Moeller et al.	395	700	07/19/93	
<b>FOREIGN PATENT DOCUMENTS</b>								
Examiner Initial	No.	Document Number	Issue Date	Country	Class	Subclass	Translation	
							Yes	No
	EL							
	EM							
<b>OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)</b>								
	EN	Motro et al., "The Design of KIVIEW: An Object-Oriented Browser," <i>Proc. 2<sup>nd</sup> Intl. Conf. on Expert Database Systems</i> , Apr 25, 1988, pp. 107-131						
	EO	IBM Technical Disclosure Bulletin, "Process Element Wrapper and the Context Verb Object Method Registry," vol. 34(10A), Mar. 1992, New York, pp. 433-435						
	EP	Goodman, "Knowledge-Based Computer Vision," <i>Computer</i> , V.22(12), Dec 1989, Long Beach CA, pp. 43-54						
	EQ	Drake, "Objects and Images," <i>Computer Systems</i> , V.10(1), Jan 1990, Bromley, GB, pp. 31-32						
	ER	Fiume, "Active Objects in the Construction of Graphical User Interfaces," <i>Computers and Graphics</i> , V.13(3), Oxford, GB, pp. 321-327						
<b>EXAMINER:</b>					<b>DATE CONSIDERED:</b>			
<b>EXAMINER:</b> Initial if citation is considered, whether or not citation is in conformance with MPEP §609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the Applicant. (2/92 PTO)								

<b>FORM PTO-1449</b>				Attorney Docket: 4386-7004US1		Serial No.: TBA	
<b>INFORMATION DISCLOSURE CITATION</b>				Applicant: Orton et al.			
				Filing Date: 8/27/03		Group Art Unit: TBA	
<b>U.S. PATENT DOCUMENTS</b>							
Examiner Initial		Patent Number	Publication Date	Name	Class	Sub-Class	Filing Date
	AA	5,379,432	01/03/95	Orton et al.			
	AB	5,475,845	12/12/95	Orton et al.			
	AC	6,606,742	08/12/03	Orton et al.			
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						
<b>FOREIGN PATENT DOCUMENTS</b>							
Examiner Initial		Patent Number	Publication Date	Country	Class	Sub-Class	Translation
	AL						<input type="checkbox"/> Yes <input type="checkbox"/> No
	AM						<input type="checkbox"/> Yes <input type="checkbox"/> No
	AN						<input type="checkbox"/> Yes <input type="checkbox"/> No
	AO						<input type="checkbox"/> Yes <input type="checkbox"/> No
	AP						<input type="checkbox"/> Yes <input type="checkbox"/> No
<b>OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Papers, etc.)</b>							
	AR						
	AS						
	AT						
Examiner				Date Considered			
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP §609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.							